## **Claims**

- [c1] What is claimed is:
  - 1.A light emitting diode (LED) light source comprising:
    a printed circuit board (PCB) having a plurality of holes;
    a heat sink connected under the PCB for conducting heat;
    a plurality of heat conductors formed on the heat sink
    corresponding to each hole of the PCB for conducting heat,
    each heat conductor having a basin on the topside; and
    at least one LED chip attached to the basin of the heat
    conductor.
- [c2] 2.The light source of claim 1 further comprises a plurality of conductive metal wires connected between an electrode of the LED chip and an electrode of the PCB.
- [c3] 3.The light source of claim 1 wherein the material of the heat sink is aluminum.
- [c4] 4.The light source of claim 3 wherein the material of the heat conductor is aluminum formed from the aluminum heat sink.
- [c5] 5.The light source of claim 1 further comprises an adhesive for fixing the LED chip.
- [c6] 6.The light source of claim 5 wherein the adhesive is epoxy or silver epoxy.
- [c7] 7.The light source of claim 1 further comprises a housing for

reflecting light and helping transmit heat.

[c8] 8.The light source of claim 1 further comprises a lens for focusing the light from the LED chip.